

**BRUHAT BANGALORE MAHANAGARA PALIKE****MEASUREMENT SHEET****RA 1ST AND FINAL BILL**

Name of work:

Improvements to Roads, Drains and other Development works in Thindlu Colony Main roads, Cross roads and surrounding area in Ward No. 09 (Vidyaranyapura).

Estimated Cost :

Rs. 98.50 Lakhs

Head of Account :

P-1878

Name of Agency:

Executive engineer, Karnataka Rural Infrastructure Development Limited, # 280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajainagara, Bangalore - 10.

Work order No:

BBMP/EE/BTP/WO/188/2019-20 Dated: 13.01.2020.

Measurements Recorded on :

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit / Rate in Rs.	Amount in Rs.
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum	
	Qty as per Premeasurement Recorded vide E-MB Page No. 1 & 2 is							891.38	243.88	217390.00
2	Plain / Reinforced Cement Concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100								Cum	
	Qty as per Premeasurement Recorded vide E-MB Page No. 3 & 4 is							158.37	5504.58	871760.00
3	Providing laying plain / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including centering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm								Cum	
	Bottom Concrete									
	Thindlu Old Village AK Colony Main Road N/S	1	12.00			0.90	0.15	1.62		
		1	12.50			0.90	0.15	1.69		
		1	11.50			0.90	0.15	1.55		
		1	14.50			0.90	0.15	1.96		
		1	12.80			0.90	0.15	1.73		
		1	13.80			0.90	0.15	1.86		
		1	11.00			0.90	0.15	1.49		
		S/S 1	13.00			0.90	0.15	1.76		
		1	12.00			0.90	0.15	1.62		
		1	12.00			0.90	0.15	1.62		
		1	14.40			0.90	0.15	1.94		
		1	12.90			0.90	0.15	1.74		
		1	13.50			0.90	0.15	1.82		
		1	12.40			0.90	0.15	1.67		
		1	15.80			0.90	0.15	2.13		
	Towards GVK Double Road E/S	1	30.00			0.90	0.15	4.05	30.25	

Assistant Engineer

23/03/2020

Assistant Executive Engineer
 Assistant Executive Engineer
 Vidyaranyapura Sub Division
 BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit / Rate in Rs.	Amount Rs.
		1	11.50			0.90	0.15	1.55		
	Towards GKVK Double Road W/S	1	30.00			0.90	0.15	4.05		
		1	11.50			0.90	0.15	1.55		
	N/S Cross Roads 1	1	13.50			0.90	0.15	1.82		
	N/S Cross Roads 2	1	28.80			0.90	0.15	3.89		
	N/S Cross Roads 3	1	39.80			0.90	0.15	5.37		
	N/S Cross Roads 4	1	28.60			0.90	0.15	3.86		
	N/S Cross Roads 5	1	16.50			0.90	0.15	2.23		
	N/S Cross Roads 6	1	32.20			0.90	0.15	4.35		
	N/S Cross Roads 7	1	29.10			0.90	0.15	3.93		
	N/S Cross Roads 8	1	21.40			0.90	0.15	2.89		
	N/S Cross Roads 9	1	19.00			0.90	0.15	2.57		
	Main Road	1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	9.20			0.90	0.15	1.24		
	S/S Cross Roads 1	1	17.50			0.90	0.15	2.36		
	S/S Cross Roads 2	1	18.00			0.90	0.15	2.43		
	S/S Cross Roads 3	1	19.10			0.90	0.15	2.58		
	S/S Cross Roads 4	1	28.00			0.90	0.15	3.78		
	S/S Cross Roads 5	1	28.40			0.90	0.15	3.83		
	S/S Cross Roads 6	1	20.20			0.90	0.15	2.73		
	S/S Cross Roads 7	1	19.80			0.90	0.15	2.67		
	S/S Cross Roads 8	1	29.20			0.90	0.15	3.94		
	S/S Cross Roads 9	1	27.50			1.00	0.15	4.13		
		1	20.10			1.20	0.15	3.62		
	Culverts									
	N/S Cross Roads 1	1	3.20			1.20	0.15	0.58		
	N/S Cross Roads 2	1	3.00			1.20	0.15	0.54		
	N/S Cross Roads 3	1	3.20			1.20	0.15	0.58		
	N/S Cross Roads 4	1	2.40			1.20	0.15	0.43		
	N/S Cross Roads 5	1	3.00			1.20	0.15	0.54		
	N/S Cross Roads 6	1	3.20			1.20	0.15	0.58		
	S/S Cross Roads 1	1	5.20			1.20	0.15	0.94		
	S/S Cross Roads 2	1	3.20			1.20	0.15	0.58		
	S/S Cross Roads 3	1	3.00			1.20	0.15	0.54		
	S/S Cross Roads 4	1	2.40			1.20	0.15	0.43		
	S/S Cross Roads 5	1	3.10			1.20	0.15	0.56		
	S/S Cross Roads 6	1	2.30			1.20	0.15	0.41		
	S/S Cross Roads 7	1	3.20			1.20	0.15	0.58		
	S/S Cross Roads 8	1	2.80			1.20	0.15	0.50		
	S/S Cross Roads 9	1	2.00			1.20	0.15	0.36		
		1	2.40			1.20	0.15	0.43		
		1	9.00			1.20	0.15	1.62		
	Cross road	2	30.00			1.10	0.15	9.90		
		1	3.00			1.10	0.15	0.50		
	Cross road	2	30.00			1.10	0.15	9.90		
		1	6.00			1.10	0.15	0.99		
	Side Wall									
	Thindlu Old Village AK Colony	2	12.00			0.15	0.75	2.70		
	Main Road N/S	2	12.50			0.15	0.75	2.81		
		2	11.50			0.15	0.75	2.59		
		2	14.50			0.15	0.75	3.26	122-32	

Assistant Engineer

23/03/2020

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit / Rate in Rs.	Amount in Rs.
		2	12.80			0.15	0.75	2.88		
		2	13.80			0.15	0.75	3.11		
		2	11.00			0.15	0.75	2.48		
	S/S	2	13.00			0.15	0.75	2.93		
		2	12.00			0.15	0.75	2.70		
		2	12.00			0.15	0.75	2.70		
		2	14.40			0.15	0.75	3.24		
		2	12.90			0.15	0.75	2.90		
		2	13.50			0.15	0.75	3.04		
		2	12.40			0.15	0.75	2.79		
		2	15.80			0.15	0.75	3.56		
	Towards GKV Double Road E/S	2	30.00			0.15	0.75	6.75		
		2	11.50			0.15	0.75	2.59		
	Towards GKV Double Road W/S	2	30.00			0.15	0.75	6.75		
		2	11.50			0.15	0.75	2.59		
	N/S Cross Roads 1	2	13.50			0.15	0.75	3.04		
	N/S Cross Roads 2	2	28.80			0.15	0.75	6.48		
	N/S Cross Roads 3	2	39.80			0.15	0.75	8.96		
	N/S Cross Roads 4	2	28.60			0.15	0.75	6.44		
	N/S Cross Roads 5	2	16.50			0.15	0.75	3.71		
	N/S Cross Roads 6	2	32.20			0.15	0.75	7.25		
	N/S Cross Roads 7	2	29.10			0.15	0.75	6.55		
	N/S Cross Roads 8	2	21.40			0.15	0.75	4.82		
	N/S Cross Roads 9	2	19.00			0.15	0.75	4.28		
	Main Road	2	30.00			0.15	0.75	6.75		
		2	30.00			0.15	0.75	6.75		
		2	9.20			0.15	0.75	2.07		
	S/S Cross Roads 1	2	17.50			0.15	0.75	3.94		
	S/S Cross Roads 2	2	18.00			0.15	0.75	4.05		
	S/S Cross Roads 3	2	19.10			0.15	0.75	4.30		
	S/S Cross Roads 4	2	28.00			0.15	0.75	6.30		
	S/S Cross Roads 5	2	28.40			0.15	0.75	6.39		
	S/S Cross Roads 6	2	20.20			0.15	0.75	4.55		
	S/S Cross Roads 7	2	19.80			0.15	0.75	4.46		
	S/S Cross Roads 8	2	29.20			0.15	0.75	6.57		
	S/S Cross Roads 9	2	27.50			0.15	0.75	6.19		
		1	20.10			0.15	0.75	2.26		
	Culverts									
	N/S Cross Roads 1	2	3.20			0.30	0.60	1.15		
	N/S Cross Roads 2	2	3.00			0.30	0.60	1.08		
	N/S Cross Roads 3	2	3.20			0.30	0.60	1.15		
	N/S Cross Roads 4	2	2.40			0.30	0.60	0.86		
	N/S Cross Roads 5	2	3.00			0.30	0.60	1.08		
	N/S Cross Roads 6	2	3.20			0.30	0.60	1.15		
	S/S Cross Roads 1	2	5.20			0.30	0.60	1.87		
	S/S Cross Roads 2	2	3.20			0.30	0.60	1.15		
	S/S Cross Roads 3	2	3.00			0.30	0.60	1.08		
	S/S Cross Roads 4	2	2.40			0.30	0.60	0.86		
	S/S Cross Roads 5	2	3.10			0.30	0.60	1.12		
	S/S Cross Roads 6	2	2.30			0.30	0.60	0.83		
	S/S Cross Roads 7	2	3.20			0.30	0.60	1.15		
	S/S Cross Roads 8	2	2.80			0.30	0.60	1.01	182.66	

[Signature]

Assistant Engineer

23/03/2021

182.66

[Signature]

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit / Rate in Rs.	Amount in Rs.	SL. No
	S/S Cross Roads 9	2	2.00			0.30	0.60	0.72			
		2	2.40			0.30	0.60	0.86			
		2	9.00			0.30	0.60	3.24			
	Cross road	4	30.00			0.15	0.60	10.80			
		2	3.00			0.15	0.60	0.54			
	Cross road	4	30.00			0.15	0.60	10.80			
		2	6.00			0.15	0.60	1.08			
								363.20	28.04		
								355.43	7197.40	2558172.00	
4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500								Tonnes		
	Qty as per Premeasurement Recorded vide E-MB Page No. 5 & 6 is								23.10	72326.98	1670753.00
5	Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge - (Data rate Approved).								Sqm		
	Side Wall										
	Thindlu Old Village AK Colony Main Road N/S	1	12.80				0.60	7.68			
		1	12.50				0.60	7.50			
		1	11.50				0.60	6.90			
		1	14.50				0.60	8.70			
		1	12.80				0.60	7.68			
		1	13.80				0.60	8.28			
		1	11.00				0.60	6.60			
	S/S	1	13.00				0.60	7.80			
		1	12.00				0.60	7.20			
		1	12.00				0.60	7.20			
		1	14.40				0.60	8.64			
		1	12.90				0.60	7.74			
		1	13.50				0.60	8.10			
		1	12.40				0.60	7.44			
		1	15.80				0.60	9.48			
	Towards GKV Double Road E/S	1	30.00				0.75	22.50			
		1	11.50				0.75	8.63			
	Towards GKV Double Road W/S	1	30.00				0.75	22.50			
		1	11.50				0.75	8.63			
	N/S Cross Roads 1	1	13.50				0.75	10.13			
	N/S Cross Roads 2	1	28.80				0.75	21.60			
	N/S Cross Roads 3	1	39.80				0.75	29.85			
	N/S Cross Roads 4	1	28.60				0.75	21.45			
	N/S Cross Roads 5	1	16.50				0.75	12.38			
	N/S Cross Roads 6	1	32.20				0.75	24.15			
	N/S Cross Roads 7	1	29.10				0.75	21.83			
	N/S Cross Roads 8	1	21.40				0.75	16.05			
	N/S Cross Roads 9	1	19.00				0.90	17.10			
	Main Road	1	30.00				0.90	27.00			
		1	30.00				0.90	27.00			
		1	9.20				0.90	8.28	416.02		

Assistant Engineer

23/13/20

Assistant Executive Engineer
 Assistant Executive Engineer
 Idyaranyapura Sub Division
 BBMP, Bangalore - 97

No	DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quantity	Unit / Rate in Rs.	Amount in Rs.
			meters	meters	meters	meters	meters			
	S/S Cross Roads 1	1	17.50				0.75	13.13	✓	
	S/S Cross Roads 2	1	18.00				0.75	13.50	✓	
	S/S Cross Roads 3	1	19.10				0.75	14.33	✓	
	S/S Cross Roads 4	1	28.00				0.75	21.00	✓	
	S/S Cross Roads 5	1	28.40				0.75	21.30	✓	
	S/S Cross Roads 6	1	20.20				0.75	15.15	✓	
	S/S Cross Roads 7	1	19.80				0.75	14.85	✓	
	S/S Cross Roads 8	1	29.20				0.75	21.90	✓	
	S/S Cross Roads 9	1	27.50				0.75	20.63	✓	
		1	20.10				1.20	24.12	✓	
	Cross road	2	30.00				0.75	45.00	✓	
		1	3.00				0.75	2.25	✓	
	Cross road	2	30.00				0.75	45.00	✓	
		1	6.00				0.75	4.50	✓	
		1	28.00				0.75	21.00	✓	
		1	29.40				0.75	22.05	✓	
	Missing slab	36	0.60				1.75	37.80	✓	
								773.49	✓	1807646.00
6	Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge - (Data rate Approved).								Sqm	
	For Covering Slab									
	Culverts									
	N/S Cross Roads 1	1	3.20				1.20	3.84	✓	
	N/S Cross Roads 2	1	3.00				1.20	3.60	✓	
	N/S Cross Roads 3	1	3.20				1.20	3.84	✓	
	N/S Cross Roads 4	1	2.40				1.20	2.88	✓	
	N/S Cross Roads 5	1	3.00				1.20	3.60	✓	
	N/S Cross Roads 6	1	3.20				1.20	3.84	✓	
	S/S Cross Roads 1	1	5.20				1.20	6.24	✓	
	S/S Cross Roads 2	1	3.20				1.20	3.84	✓	
	S/S Cross Roads 3	1	3.00				1.20	3.60	✓	
	S/S Cross Roads 4	1	2.40				1.20	2.88	✓	
	S/S Cross Roads 5	1	3.10				1.20	3.72	✓	
	S/S Cross Roads 6	1	2.30				1.20	2.76	✓	
	S/S Cross Roads 7	1	3.20				1.20	3.84	✓	
	S/S Cross Roads 8	1	2.80				1.20	3.36	✓	
	S/S Cross Roads 9	1	2.00				1.20	2.40	✓	
		1	2.40				1.20	2.88	✓	
		1	9.00				1.20	10.80	✓	
	Cross road	3	7.00				1.50	31.50	✓	
								99.42	✓	538658.00
7	Plain /Reinforcement Cement Concrete M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplatiser @3lts confirming to IS9103-1999 Reaffirmed-2008, in Open Foundation complete as per Drawing and Technical Specifications including cost of all materials, labours, HOM curing, form works, scaffolding and centering complete as per specifications								Cum	
	Covering Slab Ramp									
	Thindlu Old Village AK Colony Main Road N/S	1	12.00			0.30	0.10	0.36	✓	
		1	12.50			0.30	0.10	0.38	✓	

Assistant Engineer

23/03/2020

Assistant Executive Engineer
 Vidyaranyapura Sub Division
 BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit / Rate in Rs.	Amount in Rs.
		1	11.50			0.30	0.10	0.35		
		1	14.50			0.30	0.10	0.44		
		1	12.80			0.30	0.10	0.38		
		1	13.80			0.30	0.10	0.41		
		1	11.00			0.30	0.10	0.33		
	S/S	1	13.00			0.30	0.10	0.39		
		1	12.00			0.30	0.10	0.36		
		1	12.00			0.30	0.10	0.36		
		1	14.40			0.30	0.10	0.43		
		1	12.90			0.30	0.10	0.39		
		1	13.50			0.30	0.10	0.41		
		1	12.40			0.30	0.10	0.37		
		1	15.80			0.30	0.10	0.47		
	Towards GKV Double Road E/S	1	30.00			0.30	0.10	0.90		
		1	11.50			0.30	0.10	0.35		
	Towards GKV Double Road W/S	1	30.00			0.30	0.10	0.90		
		1	11.50			0.30	0.10	0.35		
	N/S Cross Roads 1	1	13.50			0.30	0.10	0.41		
	N/S Cross Roads 2	1	28.80			0.30	0.10	0.86		
	N/S Cross Roads 3	1	39.80			0.30	0.10	1.19		
	N/S Cross Roads 4	1	28.60			0.30	0.10	0.86		
	N/S Cross Roads 5	1	16.50			0.30	0.10	0.50		
	N/S Cross Roads 6	1	32.20			0.30	0.10	0.97		
	N/S Cross Roads 7	1	29.10			0.30	0.10	0.87		
	N/S Cross Roads 8	1	21.40			0.30	0.10	0.64		
	N/S Cross Roads 9	1	19.00			0.30	0.10	0.57		
	Main Road	1	30.00			0.30	0.10	0.90		
		1	30.00			0.30	0.10	0.90		
		1	9.20			0.30	0.10	0.28		
	S/S Cross Roads 1	1	17.50			0.30	0.10	0.53		
	S/S Cross Roads 2	1	18.00			0.30	0.10	0.54		
	S/S Cross Roads 3	1	19.10			0.30	0.10	0.57		
	S/S Cross Roads 4	1	28.00			0.30	0.10	0.84		
	S/S Cross Roads 5	1	28.40			0.30	0.10	0.85		
	S/S Cross Roads 6	1	20.20			0.30	0.10	0.61		
	S/S Cross Roads 7	1	19.80			0.30	0.10	0.59		
	S/S Cross Roads 8	1	29.20			0.30	0.10	0.88		
	S/S Cross Roads 9	1	27.50			0.30	0.10	0.83		
		1	20.10			0.30	0.10	0.60		
	Culverts									
	N/S Cross Roads 1	2	3.20			1.00	0.10	0.64		
	N/S Cross Roads 2	2	3.00			1.00	0.10	0.60		
	N/S Cross Roads 3	2	3.20			1.00	0.10	0.64		
	N/S Cross Roads 4	2	2.40			1.00	0.10	0.48		
	N/S Cross Roads 5	2	3.00			1.00	0.10	0.60		
	N/S Cross Roads 6	2	3.20			1.00	0.10	0.64		
	S/S Cross Roads 1	2	5.20			1.00	0.10	1.04		
	S/S Cross Roads 2	2	3.20			1.00	0.10	0.64		
	S/S Cross Roads 3	2	3.00			1.00	0.10	0.60		
	S/S Cross Roads 4	2	2.40			1.00	0.10	0.48		
	S/S Cross Roads 5	2	3.10			1.00	0.10	0.62		
	S/S Cross Roads 6	2	2.30			1.00	0.10	0.46		

30.82

Assistant Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97

DESCRIPTIONS	NO	Length	Width 1	width 2	Average Width	Depth	Quantity	Unit / Rate in Rs.	Amount in Rs.
		meters	meters	meters	meters	meters			
S/S Cross Roads 7	2	3.20			1.00	0.10	0.64		
S/S Cross Roads 8	2	2.80			1.00	0.10	0.56		
S/S Cross Roads 9	2	2.00			1.00	0.10	0.40		
	2	2.40			1.00	0.10	0.48		
	2	9.00			1.00	0.10	1.80	3.88	
							35.41	5275.62	186810.00
8 Construction of un-reinforced plain cement concrete pavement, using grade concrete M30 over a prepared base with OPC course aggregate at 0.69 cum fine aggregates at 0.46 cum course and fine aggregates confirming to IS : 383-2016, with superplasticiser @3lts confirming to IS9103-1999 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications - (with OPC at 360Kg per cum & coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)								Cum	
Aswathkotte Surroundings	1	6.70			5.60	0.15	5.63		
	1	16.00			5.00	0.15	12.00		
	1	6.70			5.60	0.15	5.63		
							23.26	5354.06	124535.00
									124514.00
9 Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc., complete								Nos	
Thindlu Main Road	1	30.00					67		
		0.45							
	1	30.00					67		
		0.45							
	1	9.20					20		
		0.45							
	2	30.00					133		
		0.45							
	2	11.50					51		
		0.45							
	1	13.50					30		
		0.45							
	1	7.50					17		
		0.45							
	4	30.00					266		
		0.45							
	1	20.00					65		
		0.45							
							44.44		
							695.44		
							716	432.48	309608.00
10 Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								Sqm	
Kerb Stone Painting									
Thindlu Main Road	1	30.00				0.40	12.00		
	1	30.00				0.40	12.00		

Assistant Engineer

Assistant Executive Engineer
 Vidyanarayana Sub Division
 BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quntity	Unit / Rate in Rs.	Amount in Rs.
		1	9.20				0.40	3.68		
		2	30.00				0.40	24.00		
		2	11.50				0.40	9.20		
		1	13.50				0.40	5.40		
		1	7.50				0.40	3.00		
		4	30.00				0.40	48.00		
		1	5.00				0.40	2.00	95.28	
								119.28	39.22	4678.00
11	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								Sqm	
	Qty Vide Item No. 10							119.28		
								119.28	90.10	10747.00
	Sub Total								8291913	8300736.00
	GST @ 12%								995029.56	996088.00
	KRIDL Charges @ 4%								331676.56	332029.00
	Grand Total								9618619.48	9628853.00

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyananyapura Sub Division
Vidyananyapura Sub Division
BBMP, Bangalore - 97



BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

Premeasurement

Name of work:

Improvements to Roads, Drains and other Development works in Thindlu Colony Main roads, Cross roads and surrounding area in Ward No. 09 (Vidyaranyaapura).

Estimated Cost :

Rs. 98.50 Lakhs

Head of Account :

P-1878

Name of Agency:

Executive engineer, Karnataka Rural Infrastructure Development Limited, # 280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajainagara, Bangalore - 10.

Work order No:

BBMP/EE/BTP/WO/188/2019-20 Dated: 13.01.2020.

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit
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Measurements Recorded on :

1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum
	Desilting of Drains								
	Thindlu Old Village AK Colony Main Road N/S	1	12.00			0.90	0.90	9.72	✓
		1	12.50			0.90	0.90	10.13	✓
		1	11.50			0.90	0.90	9.32	✓
		1	14.50			0.90	0.90	11.75	✓
		1	12.80			0.90	0.90	10.37	✓
		1	13.80			0.90	0.90	11.18	✓
		1	11.00			0.90	0.90	8.91	✓
	S/S	1	13.00			0.90	0.90	10.53	✓
		1	12.00			0.90	0.90	9.72	✓
		1	12.00			0.90	0.90	9.72	✓
		1	14.40			0.90	0.90	11.66	✓
		1	12.90			0.90	0.90	10.45	✓
		1	13.50			0.90	0.90	10.94	✓
		1	12.40			0.90	0.90	10.04	✓
		1	15.80			0.90	0.90	12.80	✓
	Towards GKV Double Road E/S	1	30.00			0.90	0.90	24.30	✓
		1	11.50			0.90	0.90	9.32	✓
	Towards GKV Double Road W/S	1	30.00			0.90	0.90	24.30	✓
		1	11.50			0.90	0.90	9.32	✓
	N/S Cross Roads 1	1	13.50			0.90	0.90	10.94	✓
	N/S Cross Roads 2	1	28.80			0.90	0.90	23.33	✓
	N/S Cross Roads 3	1	39.80			0.90	0.90	32.24	✓
	N/S Cross Roads 4	1	28.60			0.90	0.90	23.17	✓
	N/S Cross Roads 5	1	16.50			0.90	0.90	13.37	✓
	N/S Cross Roads 6	1	32.20			0.90	0.90	26.08	✓
	N/S Cross Roads 7	1	29.10			0.90	0.90	23.57	✓
	N/S Cross Roads 8	1	21.40			0.90	0.90	17.33	✓
	N/S Cross Roads 9	1	19.00			0.90	0.90	15.39	✓
	Main Road	1	30.00			0.90	0.90	24.30	✓
		1	30.00			0.90	0.90	24.30	✓
		1	9.20			0.90	0.90	7.45	✓
	S/S Cross Roads 1	1	17.50			0.90	0.90	14.18	✓
	S/S Cross Roads 2	1	18.00			0.90	0.90	14.58	✓

494.71

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit
	S/S Cross Roads 3	1	19.10			0.90	0.90	15.47	
	S/S Cross Roads 4	1	28.00			0.90	0.90	22.68	
	S/S Cross Roads 5	1	28.40			0.90	0.90	23.00	
	S/S Cross Roads 6	1	20.20			0.90	0.90	16.36	
	S/S Cross Roads 7	1	19.80			0.90	0.90	16.04	
	S/S Cross Roads 8	1	29.20			0.90	0.90	23.65	
	S/S Cross Roads 9	1	27.50			1.00	1.00	27.50	
		1	20.10			1.20	0.90	21.71	
	Culverts								
	N/S Cross Roads 1	1	3.20			1.20	1.20	4.61	
	N/S Cross Roads 2	1	3.00			1.20	1.20	4.32	
	N/S Cross Roads 3	1	3.20			1.20	1.20	4.61	
	N/S Cross Roads 4	1	2.40			1.20	1.20	3.46	
	N/S Cross Roads 5	1	3.00			1.20	1.20	4.32	
	N/S Cross Roads 6	1	3.20			1.20	1.20	4.61	
	S/S Cross Roads 1	1	5.20			1.20	1.20	7.49	
	S/S Cross Roads 2	1	3.20			1.20	1.20	4.61	
	S/S Cross Roads 3	1	3.00			1.20	1.20	4.32	
	S/S Cross Roads 4	1	2.40			1.20	1.20	3.46	
	S/S Cross Roads 5	1	3.10			1.20	1.20	4.46	
	S/S Cross Roads 6	1	2.30			1.20	1.20	3.31	
	S/S Cross Roads 7	1	3.20			1.20	1.20	4.61	
	S/S Cross Roads 8	1	2.80			1.20	1.20	4.03	
	S/S Cross Roads 9	1	2.00			1.20	1.20	2.88	
		1	2.40			1.20	1.20	3.46	
		1	9.00			1.20	1.20	12.96	
	Cross road	2	30.00			1.10	0.95	62.70	
		1	3.00			1.10	0.95	3.14	
	Cross road	2	30.00			1.10	0.95	62.70	
		1	6.00			1.10	0.95	6.27	
	Aswathkotte Surroundings	1	26.00			4.00	0.15	15.60	
		1	16.00			4.00	0.15	9.60	
	Desilting of Drain	1	30.00			0.45	0.30	4.05	
		1	30.00			0.45	0.30	4.05	
		1	25.00			0.45	0.30	3.38	
						419.42			
								Total Qty = 914.07	914.13
								Qty Limited to = 891.38	Cum

Assistant Engineer

16/01/2020

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit
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Measurements Recorded on :

2	Plain / Reinforced Cement Concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100								Cum
	Bottom Concrete								
	Thindlu Old Village AK Colony Main Road N/S	1	12.00			0.90	0.15	1.62	✓
		1	12.50			0.90	0.15	1.69	✓
		1	11.50			0.90	0.15	1.55	✓
		1	14.50			0.90	0.15	1.96	✓
		1	12.80			0.90	0.15	1.73	✓
		1	13.80			0.90	0.15	1.86	✓
		1	11.00			0.90	0.15	1.49	✓
	S/S	1	13.00			0.90	0.15	1.76	✓
		1	12.00			0.90	0.15	1.62	✓
		1	12.00			0.90	0.15	1.62	✓
		1	14.40			0.90	0.15	1.94	✓
		1	12.90			0.90	0.15	1.74	✓
		1	13.50			0.90	0.15	1.82	✓
		1	12.40			0.90	0.15	1.67	✓
		1	15.80			0.90	0.15	2.13	✓
	Towards GKV Double Road E/S	1	30.00			0.90	0.15	4.05	✓
		1	11.50			0.90	0.15	1.55	✓
	Towards GKV Double Road W/S	1	30.00			0.90	0.15	4.05	✓
		1	11.50			0.90	0.15	1.55	✓
	N/S Cross Roads 1	1	13.50			0.90	0.15	1.82	✓
	N/S Cross Roads 2	1	28.80			0.90	0.15	3.89	✓
	N/S Cross Roads 3	1	39.80			0.90	0.15	5.37	✓
	N/S Cross Roads 4	1	28.60			0.90	0.15	3.86	✓
	N/S Cross Roads 5	1	16.50			0.90	0.15	2.23	✓
	N/S Cross Roads 6	1	32.20			0.90	0.15	4.35	✓
	N/S Cross Roads 7	1	29.10			0.90	0.15	3.93	✓
	N/S Cross Roads 8	1	21.40			0.90	0.15	2.89	✓
	N/S Cross Roads 9	1	19.00			0.90	0.15	2.57	✓
	Main Road	1	30.00			0.90	0.15	4.05	✓
		1	30.00			0.90	0.15	4.05	✓
		1	9.20			0.90	0.15	1.24	✓
	S/S Cross Roads 1	1	17.50			0.90	0.15	2.36	✓
	S/S Cross Roads 2	1	18.00			0.90	0.15	2.43	✓
	S/S Cross Roads 3	1	19.10			0.90	0.15	2.58	✓
	S/S Cross Roads 4	1	28.00			0.90	0.15	3.78	✓
	S/S Cross Roads 5	1	28.40			0.90	0.15	3.83	✓
	S/S Cross Roads 6	1	20.20			0.90	0.15	2.73	✓
	S/S Cross Roads 7	1	19.80			0.90	0.15	2.67	✓
	S/S Cross Roads 8	1	29.20			0.90	0.15	3.94	✓
	S/S Cross Roads 9	1	27.50			1.00	0.15	4.13	✓
		1	20.10			1.30	0.15	3.92	✓
	Culverts								
	N/S Cross Roads 1	1	3.20			1.20	0.15	0.58	✓
	N/S Cross Roads 2	1	3.00			1.20	0.15	0.54	✓
	N/S Cross Roads 3	1	3.20			1.20	0.15	0.58	✓
	N/S Cross Roads 4	1	2.40			1.20	0.15	0.43	✓
	N/S Cross Roads 5	1	3.00			1.20	0.15	0.54	✓
	N/S Cross Roads 6	1	3.20			1.20	0.15	0.58	✓
	S/S Cross Roads 1	1	5.20			1.20	0.15	0.94	✓
	S/S Cross Roads 2	1	3.20			1.20	0.15	0.58	✓
	S/S Cross Roads 3	1	3.00			1.20	0.15	0.54	✓
	S/S Cross Roads 4	1	2.40			1.20	0.15	0.43	✓
	S/S Cross Roads 5	1	3.10			1.20	0.15	0.56	✓

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit
	S/S Cross Roads 6	1	2.30			1.20	0.15	0.41	
	S/S Cross Roads 7	1	3.20			1.20	0.15	0.58	
	S/S Cross Roads 8	1	2.80			1.20	0.15	0.50	
	S/S Cross Roads 9	1	2.00			1.20	0.15	0.36	
		1	2.40			1.20	0.15	0.43	
		1	9.00			1.20	0.15	1.62	
	Aswathkatte Surroundings	1	6.70			5.60	0.15	5.63	
		1	16.00			5.00	0.15	12.00	
		1	6.70			5.60	0.15	5.63	
	Cross road	2	30.00			1.10	0.15	9.90	
		1	3.00			1.10	0.15	0.50	
	Cross road	2	30.00			1.10	0.15	9.90	
		1	6.00			1.10	0.15	0.99	
						158.37		Total Qty = 164.75	
								Qty Limited to = 158.37	Sqm

Assistant Engineer

18/01/2020

Assistant Executive Engineer
Vidyaranyapura Sub Division
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

SL. No	DESCRIPTIONS	NO	Length meters	Width 1 meters	width 2 meters	Average Width meters	Depth meters	Quantity	Unit
Measurements Recorded on :									
4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500								Tonne
	Main Road N/S 10 mm dia	964	2.20	2120.80	0.62	1314.90			
	8 mm dia	20	106.00	2120.00	0.39	826.80			
	Main Road S/S 10 mm dia	1211	2.20	2664.20	0.62	1651.80			
	8 mm dia	20	133.20	2664.00	0.39	1038.96			
	Main Road 10 mm dia	630	2.20	1386.00	0.62	859.32			
	8 mm dia	20	69.20	1384.00	0.39	539.76			
	Towards GKV Double Road E/S 10 mm dia	378	2.20	831.60	0.62	515.59			
	8 mm dia	20	41.50	830.00	0.39	323.70			
	Towards GKV Double Road W/S 10 mm dia	378	2.20	831.60	0.62	515.59			
	8 mm dia	20	41.50	830.00	0.39	323.70			
	1st Cross N/S 10 mm dia	151	2.20	332.20	0.62	205.96			
	8 mm dia	20	13.50	270.00	0.39	105.30			
	2nd Cross N/S 10 mm dia	321	2.20	706.20	0.62	437.84			
	8 mm dia	20	28.80	576.00	0.39	224.64			
	3rd Cross N/S 10 mm dia	443	2.20	974.60	0.62	604.25			
	8 mm dia	20	39.80	796.00	0.39	310.44			
	4th Cross N/S 10 mm dia	318	2.20	699.60	0.62	433.75			
	8 mm dia	20	28.60	572.00	0.39	223.08			
	5th Cross N/S 10 mm dia	184	2.20	404.80	0.62	250.98			
	8 mm dia	20	16.50	330.00	0.39	128.70			
	6th Cross N/S 10 mm dia	358	2.20	787.60	0.62	488.31			
	8 mm dia	20	32.20	644.00	0.39	251.16			
	7th Cross N/S 10 mm dia	324	2.20	712.80	0.62	441.94			
	8 mm dia	20	29.10	582.00	0.39	226.98			
	8th Cross N/S 10 mm dia	238	2.20	523.60	0.62	324.63			
	8 mm dia	20	21.40	428.00	0.39	166.92			
	9th Cross N/S 10 mm dia	212	2.20	466.40	0.62	289.17			
	8 mm dia	20	19.00	380.00	0.39	148.20			
	1st Cross S/S 10 mm dia	195	2.20	429.00	0.62	265.98			
	8 mm dia	20	17.50	350.00	0.39	136.50			
	2nd Cross S/S 10 mm dia	201	2.20	442.20	0.62	274.16			
	8 mm dia	20	18.00	360.00	0.39	140.40			
	3rd Cross S/S 12 mm dia	213	2.20	468.60	0.89	417.05			
	10 mm dia	20	19.10	382.00	0.62	236.84			
	4th Cross S/S 12 mm dia	312	2.20	686.40	0.89	610.90			
	10 mm dia	20	28.00	560.00	0.62	347.20			
	5th Cross S/S 12 mm dia	326	2.20	717.20	0.89	638.31			
	10 mm dia	20	28.40	568.00	0.62	352.16			
	6th Cross S/S 12 mm dia	238	2.20	523.60	0.89	466.00			
	10 mm dia	20	20.20	404.00	0.62	250.48			
	7th Cross S/S 10 mm dia	221	2.20	486.20	0.62	301.44			
	8 mm dia	20	19.80	396.00	0.39	154.44			
	8th Cross S/S 10 mm dia	325	2.20	715.00	0.62	443.30			
	8 mm dia	20	29.20	584.00	0.39	227.76			
	9th Cross S/S 10 mm dia	306	2.20	673.20	0.62	417.38			
	8 mm dia	20	27.50	550.00	0.39	214.50			
	10 mm dia	238	2.20	523.60	0.62	324.63			
	8 mm dia	20	20.10	402.00	0.39	156.78			
	Culverts								
	1st Cross N/S 12 mm dia	72	2.40	172.80	0.89	153.79			
	10 mm dia	22	3.20	70.40	0.62	43.65			
	2nd Cross N/S 12 mm dia	67	2.40	160.80	0.89	143.11			

19889.13
Assistant Executive Engineer
Vidyaranyapura Sub Division
BRMP, Bangalore - 97

Total Qty = 23.10

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97